



What Yellow Brick Road!? Trauma System "Benchmarks"



California State Trauma Summit V

"What gets measured gets done." —Anonymous





What we will cover

- Where are we (NEMSIS & NTDS)
- Making Connections
- MVC Success!
- What does DOT want?
- Future Data Exchange
- We want Functional Status!



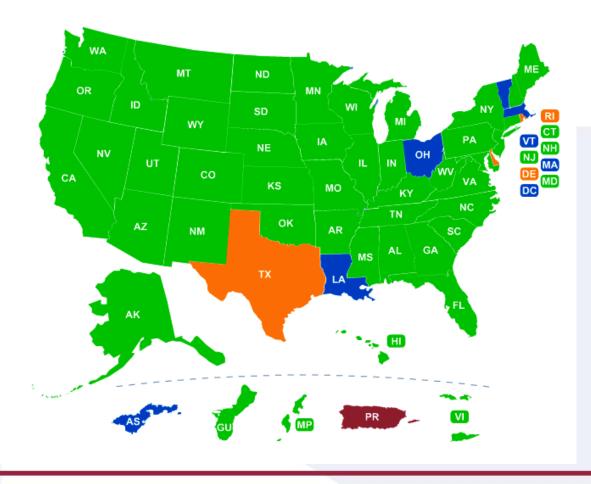




NEMSIS Participation

State & Territory Version 2 Information

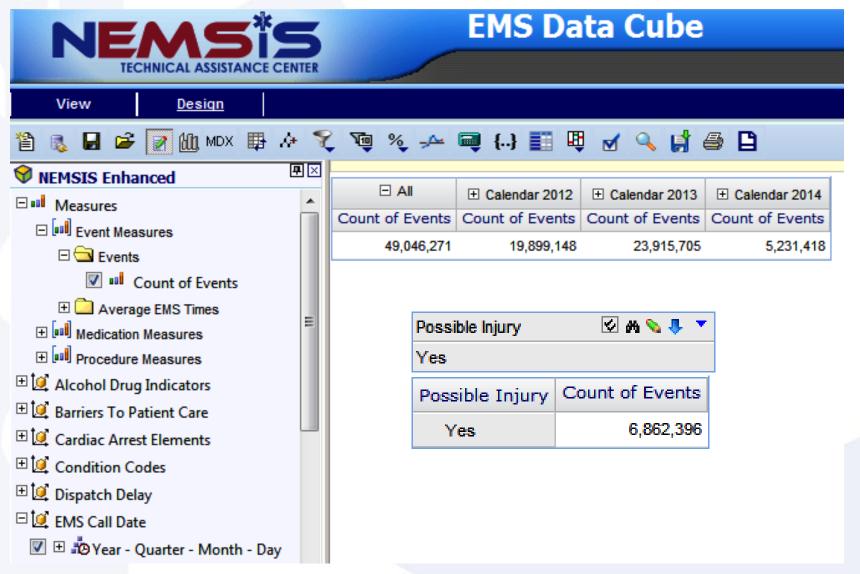








Current NEMSIS Data



NTDB Yearly Data Collection

lmission Year	Number of Records Participa	ting Centers
2002-2006	1,484,456	565
2007	507,288	436
2008	635,013	574
2009	685,783	686
2010	730,108	706
2011	784,688	756
2012	833,311	805

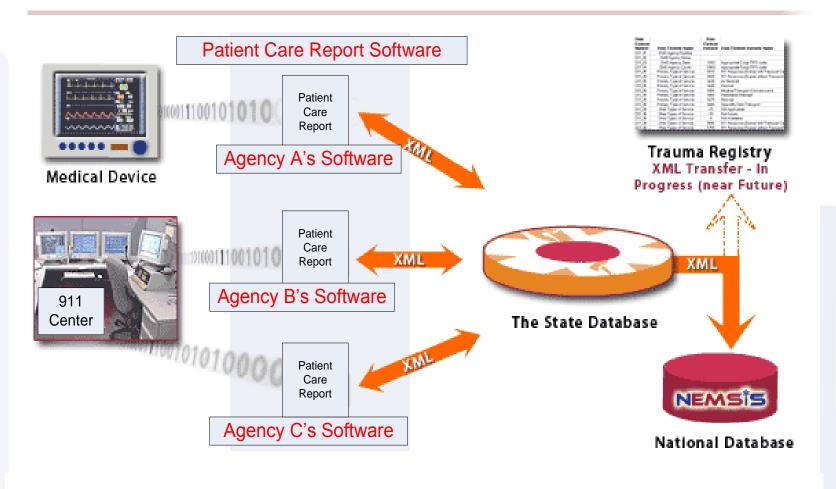








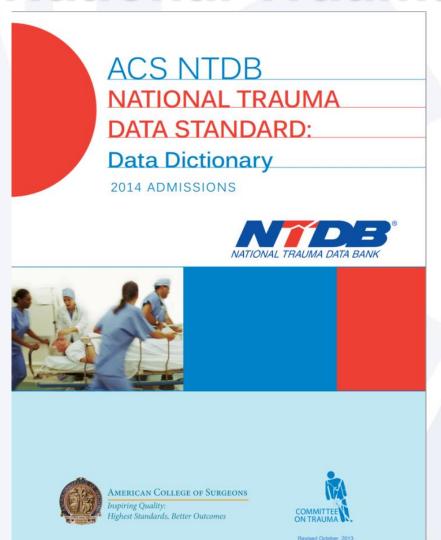
THE PORTABILITY OF DATA - the NEMSIS STANDARD.



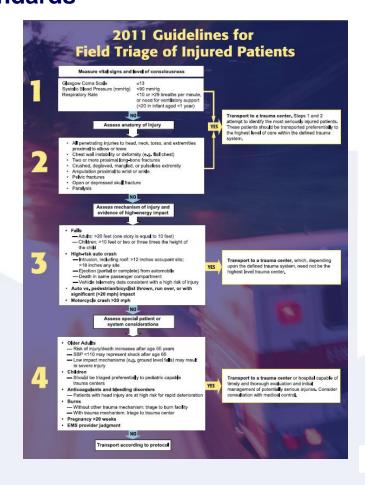




National Trauma Data Standard



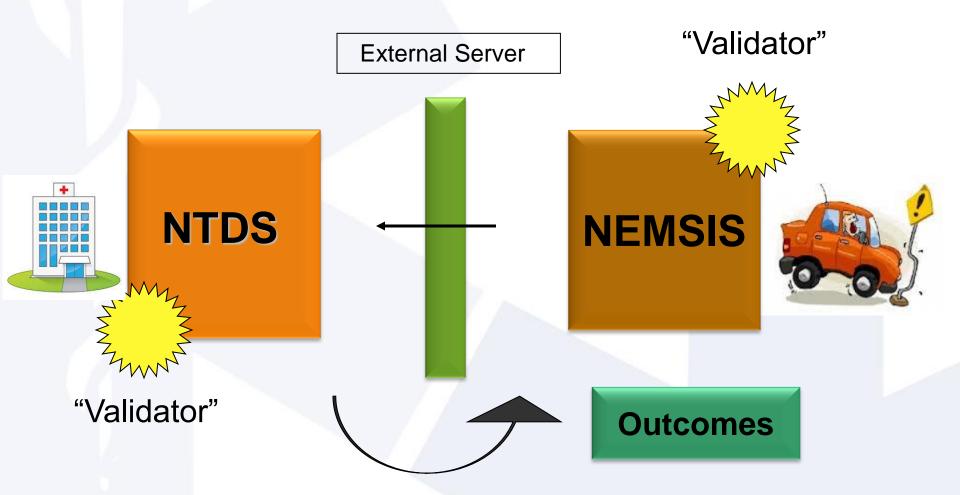
37 elements "harmonized" across the standards







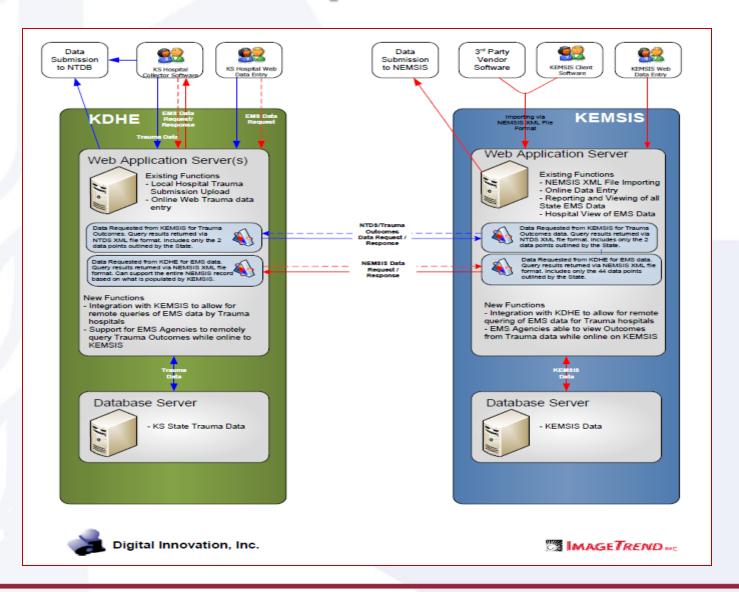
Benefit of a Common XML







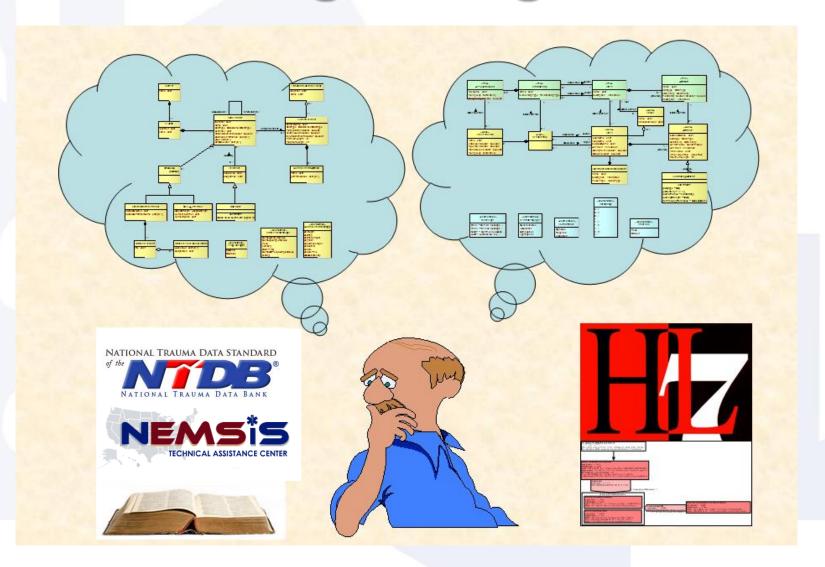
State Implementation

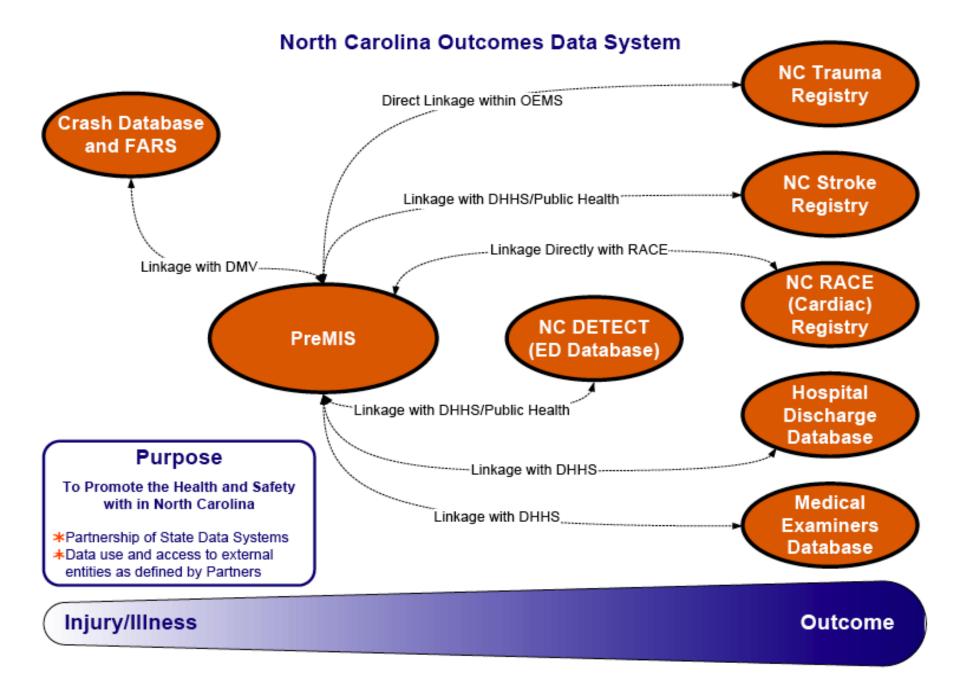






Moving through HL7!

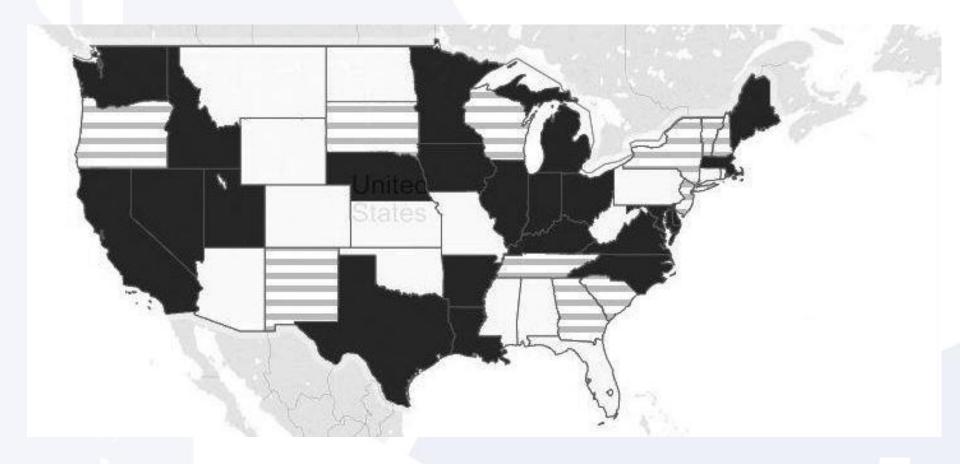








Probabilistic Linkage of Trauma Registry Data



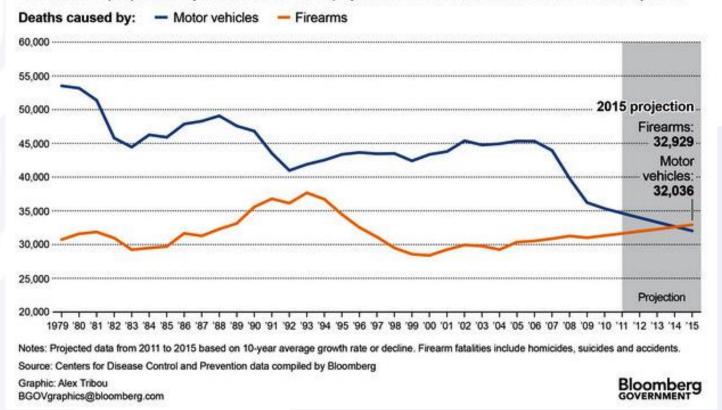




Is Harmonization Important?

Gun-Related Deaths in U.S. Set to Pass Auto Fatalities

The number of people killed by firearms in the U.S. is projected to exceed traffic fatalities for the first time by 2015.







New Traffic Crash Benchmark



NCHRP 17-57 [Active]

Development of a Comprehensive Approach for Serious Traffic Crash Injury Measurement and Reporting Systems

Project Data	
Funds:	\$449,986
Staff Responsibility:	Mark S. Bush
Research Agency:	University of Michigan
Principal Investigator:	Carol Flannagan
Effective Date:	5/22/2012
Completion Date:	10/1/2014

BACKGROUND

Currently, severity of injuries is estimated by police on the scene of a traffic crash. A very simple rating scale is employed by many states or comm version. Basically, the police officer codes the overall level of injury each person receives as killed, incapacitating, non-incapacitating, possible, or no in for rating. However, what the officer observes at a crash scene can differ substantially from what is found by medical personnel. The National Highwar Crash Outcome Data Evaluation System (CODES). State CODES programs conduct a probabilistic matching of statewide health records with craparticipating in this system, and the technical process is complex. Trying to connect police reports with any further medical outcome or cost data can barriers may exist for making such linkages within states. Performance measures are extensively referenced in draft proposals for the surface trans safety performance, both fatal and non-fatal serious injuries are emphasized in these proposals. NHTSA and the Governors Highway Safety Associat measures that include use of fatalities and serious non-fatal injuries. The American Association of State Highway and Transportation Officials has also b If serious non-fatal injuries are to become major performance measures for states, then an accurate and feasible method for determining lev needed.

OBJECTIVES

The objectives of this research are to:

(a) Identify an injury scoring system for further consideration. Analyze the advantages and disadvantages of conventional injury scoring systems based and Related Health Problems (ICD) codes and KABCO. Document advantages and disadvantages of various definitions for a serious injury metric. (b)





Collecting Serious Injury Data?



NCHRP 20-24 37K. Task 3 Survey, 2013. Survey sample includes data from 37 states.





Brick and Mortar HIE?









Market Driven Tentacles!

Care Everywhere allows doctors and nurses from different organizations to electronically exchange patient medical information.



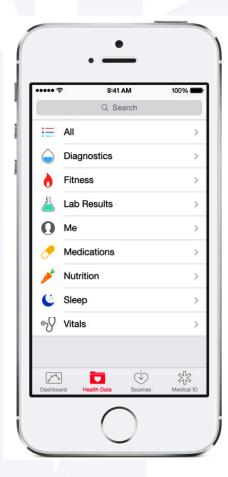


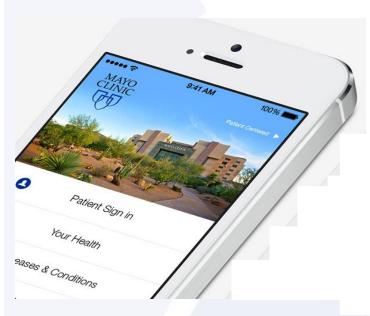
"Epic's Care Everywhere technology enables the exchange of 480,000 consolidated clinical document architecture, or C-CDA, documents each month with products built by other vendors – and that number is on the rise: more than double the amount that changed hands as of January 2014"





iOS 8 Apple Healthkit











Favorable Market Forces

How do we obtain Patient Functional Status?



- CMS Pay-For-Performance
 - Hospital Readmission Reduction Program

Mobile Integrated Health Care





MIHC Implementations

Nobile Integrated Healthcare Examples of MIHP			Call Center	tal	Primary Care	al Health/Detox	Cardiology	nacy	Telemoni toring	Assisted Living	
Location	Impacts	EMS	Selection of the select	Hospital	Prima	Menta	Cardic	Pharn	Telem	Assist	
American Medical Response	Reducing CHF readmissions	♦		♦	♦					Т	
Arlington, TX	Decrease utilization of EMS by high utilizers	♦		♦	♦						
University of Chicago Medicine Chicago, IL	Reducing CHF Admissions	♦		♦	♦		♦	\	\	\	
MedStar Mobile Healthcare Fort Worth, TX	Reducing Hospice Revocation	♦			♦					П	,
	Decrease utilization of EMS by high utilizers	♦	♦	♦	♦						
	Reducing CHF readmissions	♦	♦	♦	♦		♦				
Wake County EMS Raleigh, NC	Decrease utilization by patients who fall	♦	♦	♦	♦						
	Decrease utilization by patients with substance abuse and mental illness	♦	♦	♦		♦					
Barnes-Jewish Hospital/Abbott EMS Saint Louis, MO	Reducing CHF, AMI, COPD, and pneumonia readmissions	♦		♦	♦		♦				





NEMSIS Data Collection



eOutcome.17

eOutcome.17 - Outcome at Hospital Discharge

Definition

The patient's functional status at time of hospital discharge.

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values	No
Version 2 Element		Is Nillable	No
Usage	Optional	Recurrence	0:1

Code List

Code	Description
4317001	No Symptoms At All
4317003	No significant disability despite symptoms; able to carry out all usual duties and activities
4317005	Slight disability; unable to carry out all previous activities, but able to look after own affairs without assistance
4317007	Moderate disability; requiring some help, but able to walk without assistance
4317009	Moderately severe disability; unable to walk without assistance and unable to attend to own bodily needs without assistance
4317011	Severe disability; bedridden, incontinent and requiring constant nursing care and attention
4317013	Dead







www.nemsis.org



The NEMSIS Technical Assistance Center (TAC)...

Offering technical assistance on the implementation and tracking of National EMS Data.